



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
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May 22, 1995

Aaron Howe
Acting Forest Supervisor
Manti-LaSal National Forest
599 West Price River Dr.
Price, Utah 84501

Re: Subsidence Control for LBA #9, Genwal Coal Company, Crandall Canyon Mine,
ACT/015/032-94F, Folder #3, Emery County, Utah

Dear Mr. Howe:

In your letter dated April 27, 1995, regarding the above-referenced project, you indicated that the Forest Service would withhold concurrence until the Division had completed its evaluation of the potential for subsidence due to mining under perennial streams. All other concerns had been addressed.

Genwal has since provided information that leads us to conclude that surface features in the LBA #9 area will be protected. Please review the attached memo written by Wayne Western, of my staff, which provides the analysis.

It is our understanding that this resolves all the outstanding issues regarding the approval of the LBA #9. Please notify us if you concur.

Sincerely,

A handwritten signature in dark ink that reads "Daron R. Haddock".

Daron R. Haddock
Permit Supervisor

attachment

cc: W. Western
P. Grubaugh-Littig
D. Darby

usfslba.gen





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May 17, 1995

TO: Daron Haddock, Permit Supervisor

FROM: Wayne H. Western, Reclamation Engineer *WHW*

RE: Response to LBA #9 & Longwall Mining Reviews, Genwal Resources, Inc.,
Crandall Canyon Mine, ACT/015/032, Folder #2, Emery County, Utah

Operator's Proposal:

Genwal is providing calculations, showing roof strength using the Plate Theory, and logs of the roof obtained by borehole camera logging conducted by the U.S. Bureau of Mines. It is important to remember that Genwal has not had an overburden roof failure irrespective of the depth of cover. The massive bedded sandstone is present in the roof throughout the area that has been mined and that is projected to be mined.

Analysis:

The Division has examined the calculations and determined that the risk of surface damage caused primarily by roof failure is minimal. If surface damage did occur, it would most likely be from subsidence caused by pillar failure.

It is unlikely that roof-failure-induced-caving would reach the surface. Usually roof failure only involves the immediate roof. In those cases when the entire roof fails swelling of the caved material usually prevents surface damage.

Findings:

The Division has determined that the risk to surface features due to roof failure is minimal. The Division has no reason to prevent the Operator from conducting first mining in the LBA area.

RECOMMENDATION

Approve the Operator's mine plans.

GENLBR.WHW

